PR. 1806

## **PATENT DOCKET 709**



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
Paul J. Carter et al.
Serial No. 07/715,272

Filed: 14 June 1991

For: Immunoglobulin Variants

Group Art Unit: 1806

Examiner: L. Feisee

460 Point San Bruno Boulevard South San Francisco, CA 94080

(415) 225-2614

## **Amendment and Response**

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Responsive to the Office Action mailed 5 October 1992, please amend the claims as follows:

The Waget

(Amended) A method for making at least a portion of a humanized antibody variable domain comprising amino-acid sequence of a non-human[, import] antibody which is desired to be humanized (import antibody) and a human antibody, comprising the steps of:

- a. obtaining the amino acid sequences of [at least a portion of] an import variable domain and of a consensus human variable domain;
- b. identifying Complementarity\_Determining Region (CDR) amino acid sequences in the import and the human amino variable domain sequences;
- c. substituting an import CDR amino acid sequence for the corresponding human CDR amino acid sequence;
- d. aligning the amino acid sequences of a Framework Region (FR) of the import antibody and the corresponding FR of the consensus antibody;
- e. identifying import antibody FR residues in the aligned FR sequences that are non-homologous to the corresponding consensus antibody residues;
- f. determining if the non-homologous import amino acid residue is easonably expected to have at least one of the following effects:
  - 1. non-covalently binds antigen directly,

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